9/889874 PCT/GB00/00219

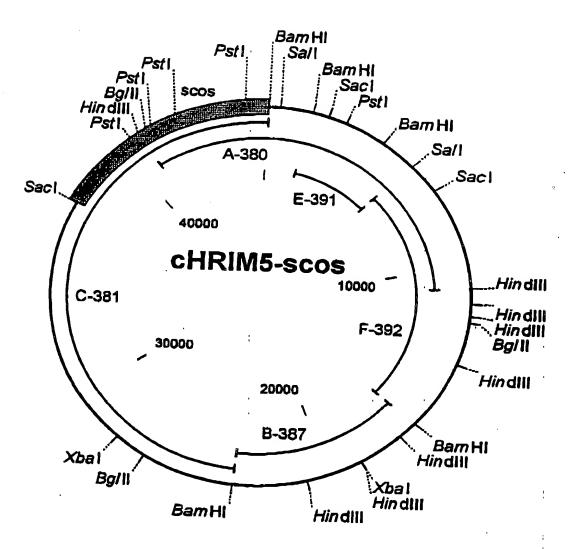


Fig. 1



| | | | 2/14 | | | , |
|--------------|--|-----------------|-------------------|---------------|---|--|
| Molecule. | 4 | 1/1 | Sequence : | Data | | |
| Descript | | m5aa27 aaa | - | | | |
| | | m5ed2.seq, | 37544 bps | | | |
| _1 | ggatcagctg | gtttgccacc | gggateccea | cogttgatgo | cctgttagcg | gaggaattet |
| 61 | ggcacggrga | caaacaggct | ttcccacct | ttacctocco | ttttacocat | tttdaccctd |
| 121 | ataamgaaca | ggatgttact | cregricect | CGACGGAAGA | agettattag | ctaceccaaa |
| 181 | cgccgcaagg | ccaaccgtta | cacagtgagg | tetatoocoa | Coatoocacc | acaceaacaa |
| 241 | graceceta | taccgttatg | gacagtcqqc | cccaddttca | acttetaaca | aatttarcaa |
| 301 | gtaactcacc | gacagtotgg | ccgagtgtga | ttgaacagag | aacctogcag | taccaaccca |
| 361 | ttgccgatga | teegeaatge | catcagcago | teatactana | captoaccoc | taccottttc |
| 421 | cacgggagac | cgtcgacatt | gcttatccoc | decoccetaa | acctacaata | tracettace |
| 481 | cqqatacqct | gccggcgacg | ttattcgaca | gcagctatga | tuancancaa | caggaattec |
| 541 | ggcttacccq | gcaacggcaa | cattaccatc | acctdactda | Cactgaacat | caycaaccyc |
| 601 | dactocctos | tgtcatgcga | agggatgeet | agagetatee | accedence. | caaguguugu |
| 661 | aaggtttcac | cctggaggac | ttactaacaa | agaacaatct | ggtagtgtgg | gracecegry |
| 721 | tgacctattt | agggcatcaa | cacataactt | ataccageee | gatageeeeg | gycacgccar |
| 781 | CCSCCCCSCS | adcactaata | acttatacca | aractygeac | yaccyyaacc ***************************** | gaagaaaaac |
| 841 | aggeettaa | ggcgctggtg | eat cetates | aaaccycygu | | rrggeerege |
| 901 | ====================================== | tggcacattg | ttasstssss | ccccggaaaa | GHARLESATE | gagtetggtt |
| 961 | acceptetec | tccacgccca | cccatataca | gegeggaate | adcaarcraa | gtcgcccgtc |
| 1021 | coordeacacac | cgattacggc | gggtetgagg | cgttttaeeg | recattaget | cagcggacga |
| 1081 | tacaacatac | tggcaaaaac | ACCCLCCACL | gggataccca | tractgracg | gregreegra |
| 1141 | ttcaggetge | ggcgggtctg | cacacggatg | cegeetatga | tracegette | ctgacccccg |
| 1201 | tateateese | cgatgccaat | gacaaccage | aacatatcac | actgaccgcg | ctààààcràà |
| 1261 | Pagaccccc | coggttctgg | ggcactgagg | aagggactcc | gcagggttat | acceegectg |
| 1321 | tteeaattae | atttacgcca | cogcoccag | tggcggaagc | cctcgacttg | aaaccggatc |
| 1381 | atcaggety | caactgcatg | gretatgege | cgccgagecg | gatgccgttg | gegeacacet |
| 1441 | accet a acce | tatageegge | cttaegtgge | aggcactgct | rgacgcgggg | gtagtgacgg |
| 1501 | tantagge | ggtttgtgcg | ELGGGEEEE | gregerggge | geaacgtcag | ggcattgtgc |
| 1561 | 2000212 | ggcattggcc | gatteacggg | aaccegtcca | rgreeraacg | ctggccactg |
| 1621 | toowerst | cacggatccc | gaccagcaac | tgcgcaagag | cgtcacctac | agegaegget |
| 1681 | | attgcaaagt | geagtetace | atgcgccagg | agaagcctgg | caacgcg¢gg |
| 1741 | cayacyycag | cctgatcacg | gacgcgaaag | gggcgccct | cgtagcccat | acggcaaccc |
| , | deedadeadr | ctcaggcagg | acagagtatg | acggtaaagg | gcaacccgtc | cgaacctacc |
| 1801 | egecattett | cctgaatgcc | rggcagtacc | tcagtgatga | cagtgcacgg | caggatttaa |
| 1861 | atgeegatae | acaccgttat | gacccqctcq | accacaata | CCAGGEGAGA | ACCOCCAAGG |
| 1921 | ggtatcigcg | ccreerccad | crgaccccct | aatttataat | GARLGAGGAL | GAAAACGACA |
| 1981 | egetetetta | attaacacga | taacgttaaa | taatcacacc | ttcctgccag | gtacggggga |
| 2041 | aggetaacta | ctctatcaag | gaaagggttt | atgactgtaa | acagaggega | taacctgcat |
| 2101 2161 | caaaaaacgc | cggaagtgac | ggttctggat | aaccaaaaac | tgaccgttcg | canactecat |
| • | Lateacegee | acccaaatac | CCCCACCACC | accontoaac | ggatcacccd | ccatcouttt |
| 2221 | acteteteag | grcagrrggc | gcacagcatt | daccedeate | totttoactt | acageaga.co |
| 2281 | gataatacag | CCARTCCTAA | catgatttat | gatactgcac | tgaccggtga | gattataeac |
| 2341 | acaaggagcg | rcgargcggg | taatgatctg | atattgaatg | acattaccoo | ceaacetata |
| 2401 | ctggccatca | atgcaaccga | agtcactegt | acataacaat | atgagaatga | cactttacec |
| 2461 | ggacgcccgc | tcagtatcac | agaacagect | actaccasa | CAGGCCGTAT | CACAGAGCGT |
| 2521 | recutering | endddageedd | tcaddcddad | aadaacadca | acctanceas. | acadtocata |
| 2581 | cyccaccacy | acaccyceyy | actdeecced | acodacaota | ttococttaa | codestaceo |
| . 2641 | crycaryca | cgcgccagct | deraccaage. | ddtacddacd | CAGACTGGCA | gggaaacaat . |
| 2701 | gamuccgccu | ggaacgaccg | accadescea | daaaacttca | CCACCCTGAG | cacdacadat |
| . 2761 | gove organs | | CACCACCGAT | acaaccaata | acctaraaca. | + <i>c</i> + <i>c</i> - <i>c</i> - <i>c</i> ++++ |
| . 2821 | yeey cayeay | que cque cqae | LUUCAOLLOO | CEGEGGCEEG | COCCCCCAA | |
| 2881 | area charac | CLCLUGCGCA | LLCCGCCGCG | COTCATAAAC | tacacassas | ACT |
| 2941 | 33-3-33-30 | Crace racati | CLACUMOCEO | DADACCCARC | accttatta. | C2+ |
| 3001 | aaacgcccac | agggacatgc | acaddddacd | ascatattac | Page catago | caraaaaacc |
| 3061 | gacccggtgg | ggaacgtagt | gaaagtgacg | ********* | aggatetgeg | ctatgagtat |
| 3121 | aaccaaaaag | taataccaaa | Bascacctat | atcrates | #995tbcccg | ceteeggege |
| 3181 | gccaccgggc | gegaaatgge | Caatetest | Character | geergentes | getggteagt |
| 3241 | Ctcattgata | ocaotaceta | Carcaactat | tescalayea | cgctgttace | CACTCCTTCC |
| 3301 | aatctgacgc | agatacotca | cagtggtggt | torcycacct | acaattatga | ccdrddddaec |
| 3361 | aatctgacgc | atcacaca- | ccacacaet = | gecaceggta | acagttacac | cacggacate |
| 3421 | | | CCGGGGGGG | TTGGACACGC | tascantas | ******* |
| 3491 | 3-23-5-6- | | uuucuaacac | CRUATICACA | tacasconer | |
| 3541 | 3-4-334-34 | -3-3-33-30 | 4CCGCCGA88 | ataacacca | taatscatas | cacacacatt |
| 3601 | 9 | | arecaca | accourage. | グアカナアカナアカカ | **** |
| | | craecaycic | 4 Caudedead | agcacactat | * CCF & C & S & A | ***** |
| 3661 3723 | | | UACUUTCUARA | 787777722A | 3000ttstaa. | |
| 3721 | 2-23-0-2-3 | -9 -43 - 44 - 6 | UULACEGCAC | COOGRAARCA | Manageenaa. | + |
| 3781 | | | CLULLARE | CCCATCOOCA | 773 ACMATES | ## * ## * # * * * * * * * * * * * * * * |
| 3841 | 3323223400 | | LALDUAANAA | T3CT3CCC#+ | ^ | |
| 3901 | acggcgagga | gtcagacagá | ggctgattac | aagactotoc | Ottactcann | Caareacee |
| | | - | | , | 2 | |

Fig. 2

chrim5ed2.seq



PCT/GB00/00219

| 3961 | ###################################### | | | | | |
|--------------|--|---------------------|-------------------|--------------|--------------------------|---|
| 4021 | ctgagtgcg | g ggctgtatt | a ttacggcta | c cggtattacc | agccgtgggc | ggggagetgg |
| 4081 | | | | | | |
| 4141 | | | | B CTAMCACCC | , <i>d</i> pppppppp | |
| 4201 | | | | | | |
| 4261 | **** | | | , andarataan | | |
| 4321 | | | | , CCTAAAAA | | |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | > | + |
| 4381 | 33-3 | | , -ua-aa | . Catternesa | | |
| 4441 | 9994-44-1 | | | , ctccaaaoan | ' CCCCtasets | +-+ |
| 4501 | yace bay cae | . areoliticas | . allaccadaa | . aatocaacaa | しょうしょう しゅうしゅう | **** |
| 4561 | eg cy c cyaa c | , ycaayygcgc | : ccatattace | : dicacateca | ctoomacean | + |
| 4621 | uga ca aag c | - CCBLLaLays | , uaacaaaddo | . GBATTETCCC | ののたっとととって | 300t 300 500 |
| 4681 | gaaaacyay | | . acagecoog | : AGRGTTCKCK | = 4 = 4 m 4 4 8 m m | + |
| 4741 | ggcgcgacae | , carrerrado | I TUCTAAAAAT | . daaaaadtea | TACACCEC = - | |
| 4801 4861 | ga-caucty | , acarreatie | duucaabtta | - ECAATGETTA | CEAAAAAAAA | |
| | y = u = u = u = u = u | yyyeaq | . AAreaaaaaaa | agtetgaege | じきまごきみみごせた | facemons on |
| 4921 | 9909-6-6- | | SARCEGEATE | CABATACOOA | たまれたにゅうたんか | |
| 4981 5041 | cyacutyatu | . wywcacyteg | regarecce | gttacaccaa | Caggicagae | acctactact |
| | | | ~~~~~~~~ | CCATACCATC | 3003103003 | CC202+#+ |
| 5101 5161 | C C C C G A C G C C | craacygega | grtaatcaga | GATCCCGCGA | ataattattt | tttataataa |
| 5221 | -uu -cya caa | - aarrgrace | CCUCCGATAA | acattcacct | tootottaca | A = # B B B B B B B B B B B B B B B B B B |
| 5281 | | | QTECTATECE | LUCCAUTCAC | atttatacce | ~~~~~ |
| 5341 | | | GLECCCORCO | EEEGacatoo | ぐべる ヤベルナバヤル | ~~+~~ |
| 5401 | 9 | | GCCOGATETC | AATCCCCTGC | TMARKETES - | |
| 5461 | スーココースコフィス | #ycycyucqq | LATEUUCCCC | acttttated | atadtcacca | as at agent et |
| 5521 | 7599- | **** | CHULAAAOOL | ATTICCACTO | クロウナヤヤカコハケ | ++==+==== |
| 5581 | | | GEOCESSCAG | actititaee | TTTCCCGGGGG | ~~~++~~~ |
| 5641 | Accadadacec | | 4000000000 | GENEGGEGGG | グナクグナクグシクへ | |
| 5701 | 2-4-290000 | ~~~~~~~~ | -vattacata | acctcacccc | OT BOOT CBOS | #E ### |
| 5761 | acatcactct | Coactcactc | acaggataat | ggaggagttt | gaatgcgttt | cggatcaggg |
| 5821 | gaacctattt | tatcoattoa | =4000Cagga | gagettacet | gatattacge | taatgcgaca |
| 5881 | ctctgttaat | CCGACACAAC | cctttttt | agicalcatt | cccacctccg | tacaaacttt |
| 5941 | maattccttt | agattteet. | tanttantta | alatigeett | genttgeetg | tagttgcctt |
| 6001 | gcgaagcgcg | tcatttgage | Contracts | addielecal | antattgcct caaatccatc | gagccgattg |
| 6061 | assterceac | Battaacoca | ddcacatttt | Caccegees | SCSTSCSCS | cgctcgtgaa |
| 6121 | cacaatococ | catococaat | GCCGGAAAGA | acaract ast | gtccttaaaa | tagtgacgtt |
| 61.81 | cgacagcaag | CCGCGCAAtg | CCCtottcca | gegegeteat | grageggege | gageettgge |
| 6241 | caccccattg | cttgcgcgta | togcogatos | ttococotaa | atoggoetca | acctgcgcgt |
| 6301 | | 2 | CULUULEDET | CCCCCCCAACC | TOTOCATAGE | |
| 6361 | 3 | | CCCCCCCCAT | CCCTTCATTC | AT のののせんきゃん | |
| 6421 | | -4 | UBLCOCKETS | ACT CATT COM | 77222444 | |
| 6481 | D | | ~~LUCAAOOC | auccaatecc | ここころ クククヤナナ | 445+45+ |
| 6541 | 333-44-43 | ~~~~~~~ | uacuuccat | DOLLLECTOR | アデュナスカルナチャ | |
| 6601 | | ~~ | * F FOR COOL CAN | TTTATTAGEC | | |
| 6661 | 3-4-33-4-40 | | LCOUCCATIO | TCATTTTAAA | | ^ |
| 6721 | | | | | | |
| 6781 | ~~~~~~~~ | | | CCACCOCATO | 227 <i>7</i> 722744 | |
| 6841 6901 | | | | | | |
| 6961 | | | | | | |
| 7021 | | | | | | |
| 7081 | tracatge | gregatacga | adageetted | tgaçaçççat | gcataagaga | Aggccatcat |
| 7141 | | | | | | |
| 7201 | zatenzete | greagaatge | ccacttetta | attgtttcca | asactastgt | tottatotca |
| 7261 | | | | | | |
| 7321 | | COURTMENT | tgttgccgaa | gtettteetg | atatggtgaa | acgttccata |
| 7381 | | | | | | |
| 7441 | | | | | | |
| 7501 | cactaceass | Contatte | coggattato | gctatcgata | attcaccage | catgatcgaa |
| 7561 | | | | | | |
| 7621 | | | | | | |
| 7681 | | | | | | |
| 7741 | | | | | | |
| 7801 | | ryeatcatga | LLICALGEGA | gccaatggtt | accagazant | ggaagtcage |
| 7861 | coccttaaa | y caryetyya | tgtcatg | cggacagatt | etgttgacac | CCAtaagtca |
| 7921 | | | | | | |
| 7981 | | | | | | |
| 8041 | tegecangen | | Callggotgg | atagectgee | agcacaatto | ag cactoor |
| B101 | agatcaagee | | cagttcaget | catgggtaaa | aattotggaa | astttacate |
| 8161 | agatcaagee tgtcaaaage | | gacctgaaa. | atggtgtcat | tgcgattcet | gagccounte |
| B221 | tgtcaaaagg aaggcccttt | -4-44444 <u>-</u> - | cgcctccaca | atatectgan | aatattgato | CCATGGGGAA |
| | aaggcccttt | arratat | 32 | -ca-recau | <u> Atggegetet</u> | gactggaaat |
| | | | Fig. 2(| i) | | |
| | | | · 'y. 4(| • / | | |



| | <u> </u> | 4/14 |
|---|-------------------------|--|
| • | 828; | .mjeaz.seq |
| | 834 | |
| | B40 | giggeagigg trateacate telefact tagachang asceptactt gaiglegget tegatecase coasetitt etctoteast tiggeparge containing gitginggta |
| | 8463 | l atcaaccage ceaecttote continued by any cayanaging triggggaaca |
| | 8521 | atacogtatt tteaatogga grantsta toyadeant accepaactg caageette |
| | 8587 | actgaaaaa tcaactggtg tctgatggtg actgttggtc acctcttgat catctgtggc gtgatgaaaa tcagtgcctc attccgggtg accounts gaaagttta gtgattgagg |
| | 864] | gtgatgaaaa tcagtgcctc attccgggtg agttagtgct ggaaagttta gtgatigagg ttattccctc ggccaagatg ctgaaagtct ggccggaatgcgc acaaatgcgg aatgtctact |
| : | 8701 8761 | ttattccctc ggccaagatg crgaaagter ggcrggaaaa atgtggtttt gtcgatgtca |
| | 8821 | gaattgtega teatgegget acaacacetg atgaacageg eeggacagaa tggatgaaga eeggaatace ggtagattte ettgatees |
| | 8881 | ccgaatcact ggtagatttc cttgacccat cagatcacag ccggacagaa tggatgaaga ctgccccatt gcgtgctotc cttgatcaca cagatcacag taaaacaatt gaaggctacc |
| | 8941 | ctgcccatt gcgtgctgtc ctcattgccc gcaaaccata atattgaata aatattaatg |
| | 9001 | cgcaagcgat atcarateta cogottaate traditicula agaitteget tteettatga |
| | 9061 | aactcaccat caacactota of dagaate aggreeate Cleecticat coactcanct |
| | 9121 9181 | gccacccta cetteggta etteatggta gaagtacaa tettaccege egagetatga actteegtea tegeggete eagaagtta etgatacaa tettaccege egagetatga |
| | 9241 | actteegtea ttgeggette cagaaactta etgatatta teaccetgac accegegeg |
| | 9301 | ggcataatta toggcocacg gotggottgo atcagotott ttaacagogt cagococagt toagcatot gotgttgoc tgatgttaan atcagotott ttaacagogt cagococagt |
| | 9361 | tragcattet getgttggee tgatgttaaa atacgetgea etcaagete tgtcagttgt |
| | 9421 | tttcccgaca utdacatcaa ctgcccata coanadycyc gatgaaaagt aacagccata |
| | 9481 | assatgecas saacastgee ggggsaceee stateagga tacqagease gteatritte |
| • | 9541 9601 | atggetteam anteemtgit gitatancag anatemenga tacquesanc gitattitic tgeneaggam tagatanceg etginacega tagtetenec etcitggeeg cacantggam |
| | 9661 | tgcacaggaa tagataaceg ctgtaacgac tgttgtaatg ccccaaaact gggtgtcaat |
| | 9721 | cogocitica acgggotige gottaating attegrating commandet gggtgtmain agegracage thatgetata acaggaant terrolitha |
| | 9781 | agogcacago tratgotata acagocaaatt toongottta toottaana goodcogaatt tagtgoaaco |
| | 9841 | Ctatgacaac taacttatet taatemente toodactae titattagig dacttattaa |
| | 9901 9961 | ggmacageat gatamamaeg temtettee eggetatee temetettee gatacamama ggmatgatatt temtetet temperature en |
| | 10021 | gatacaaaaa ggatgatatt tgategtgat tteaecatea gtgacageea maategggtt eggcaacegt teattttte ettttgatgatg actacatea gtgacageea maategggtt |
| | 10081 | oggcaecgt toattitte cittigatg acteicette ategasat tateiggta aggitgage aataactit tageiteaca aatagette ategasaat tateiggtaa |
| | 10141 | cagticgaca tottoccase oftoctocase attacked totographia caggoageae |
| | 10201 | Cacgoatte attitedagt caageatte |
| | 10261 10 3 21 | cggacggcca ttaatgatac tttcagatat taatggctgg ttcagatcaa ataagcagat ccaacgatcg gctattttac tttcagtaca accagacca cattgcagaa agcccttacg |
| | 10321 | ccaacgateg getattitae titteattac aegeaggeaa cattgeagaa agecettacg titegaagigt aagecaagat gegetteana tigettaga atatggietg cigaatatig |
| | 10441 | ttogaagtgt aagcoagat goodtteana togtagggaa atatggtotg ctgaatattg atcagocact aastootgta actosgaaat tottgottaagt tittgotoaa atcoggotaa |
| | 10501 | atcagecact assteetgta acteagast tittgatasa tettgetess atcaggetas asstasaceg tasasattee ettecesttas tettgasasa teggetess tettessattas |
| | 10561 | gccqaaatat cactcagtaa gcgagtaat gayacataa atcacaaatc gtctattttt |
| | 10621 | gacaggetaa aaacaaaaag taacaccacc agaggtggca taacgacgaa tegectgasa cgastatggt ataaacccg ttattttgc stategggggggggggggggacg |
| | 10681 10741 | cgaatatggt atabaccccg trattetet atagccaca cgettamag tattgcatt ccamatge taagetteg toegtaget agaccaca cgettamag tattgcatt |
| | 10801 | ccassatges taagettteg tgegtaactt sagetssee ggtgastata caggttatte ttteagamma asteagemat gegetgatte angetssee ggtgastata caggttatte |
| | 10861 | aggicigica atcincens consisting anything technicipae agigangeic |
| | 10921 | GCCCLARAA GCCCCATA CCCCCCCA Y THE LEE AGCRATGGC GCGCCCC |
| , | 10981 | atotgomagg antigodage anagttgam tigonggoco aggtttato antatttto |
| | 11041 11101 | ttgatamago gtgggttgem gemmatatag mangtendect gammatata mageteggtm temperatura gemmatagam mageteggtm temperatura gammatagam mageteggtm |
| | 11161 | traccecagt ggmacogcam accategita tegataccet gammagatgam magetoggtm agetgetgt tegataccet ggmacogcam tegataccet gammagatgam agetagecam tegataccet gammagatgam agetgetgam tegataccet gammagatgam agetgetgam tegataccet gammagatgam agetgetgam agetgam tegataccet gammagatgam agetgam aget |
| | 11221 | agtitution ocatament attornament attornament agricultus |
| | 11261 | ggatgetgat cocctaters gas |
| | 11341 11401 | codatttada agerrichat essential agencyales tyccastgac atdocattad |
| | 11461 | ctattcgcgc tegtaactac gtcgtcaaac tgcaagegg tgatgaagat gmagagtttg tgtggcgtaa getggtagat atdaccatgt ccaagetgg tgatgaatat tgccgtaaga |
| | 11521 | tgtggcgtaa getggtagat atcaccatgt creapattea ggamacttat tgccgtaaga atgtcacatt gacagaamaa gacgttatgg gtmanacet |
| | 11581 | atgtcacatt gacagaamaa gacgttatgg cccagaatca ggamacttat aaccgcctga gtatcgttgc agatttaaa caacatgga ttgaaagct gtataacgat atgctaccgg |
| | 11641 | tttaccttda tonattonad mitagging court of the gardeted |
| | 11701 | aagatootoo ctatootoo baaraa yeyndeelat gyytottatt atccadaaaa |
| | 11761 11821 | cettaaatge Cageogtgtg etttactsea testegeetg egeräaatae egteatgaaa aagettggge aattgtacgg aaaacggtt atsteasg cageaccag cacetgatge |
| 1 | 11881 | angettggge natigiacgg analoggit atticagg accadence cacetgatge acatgiting catgatget ggganaggit gtaltecagg accatgic ctegacace |
| | 11941 | acatgiting catgatgets speakaget attitioned atcoatgica cicemacace cagtanget steepatts cicemacace cagtanget steepatts citemacace cagtanget steepatts citemacace cagtanget steepatts citemacace control canal control control control control canal c |
| | 12001 | cagtaagact gicegattg gigatgaag gattgageg tgeggatage etcattegtg agaaaaccc agatatgca gaagacgaag tgaagacg tgeggatage etcattegtg |
| , | 12061 | qcqcqdtaaa atstocsos |
| | 12121 | atastatort goccttone gocctone |
| | 12181 12241 | TGTCatctat ctttan co committee grantacgec tacacacac |
| | 12301 | tgaatdaaga acgreeness as 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | 12361 | ctaccquege cegtgaaggt acgccacatg tratgtgtge atacctgtae gatacggtca gtetgttete tggtttetat gagcactge etatgtgtge atacctgtae gatetggeg |
| | 12421 | gtetgttete tggtttetat gageactgee etatestgaa tgeegatage garetggeeg geeagageeg eetgaagttg getetgetga cadegaanaa tgeegatage gaagaactge |
| | 12481 | CICIOCOTAT TORRATORS CONTINUES CONTINUES CONTINUES |
| | 12541 | ctctgggtat tcagactgta gamegtatgt adatatete tacaaagetg aaaactggeg tgatattatt ttattacgcc agttettec ttettatat tetgtesaaa attaccaate |
| | | |
| | | Fig. 2(ii) |
| | | |



| chrim5 | ed2.seq | | 5/14 | | | • |
|-------------------------|--------------|----------------|-------------------------|--|---|---------------|
| 12601 | tgacatate | à ttaatcttq: | dctaacate: | igatettiaa | tcatacasas | |
| 12661 | aguaguagu | - yrrargaaa | . aactatttat | . TICTAACIGC | EARCCCEACC | 387555555 |
| 12721 | aaaaaaccc; | 3 MILLILLEMENT | - actattaate | : attaatuata | atttctattt | + |
| 12781 | LGLLALAZZ | a aatagtatti | E Caaaaaacs | : ttttacarta | tataaaatat | atcastes. |
| 12841 12901 | COULTATEE | - CCCALCCACT | : tataaaatat | : atttttacc | aaaataatat | ttasstcs. |
| 12961 | CARCACACT | . acatcacgtt | agatcaaaat | aacaatttt | tagtcgttaa | cccagattca |
| 13021 | gaacggcact | g algalalate | agtcacatgg | gttgtaaata | aaggaaaaag | ataaaaaaga |
| 13081 | tasatosaat | : ccotycatta | . Clicatigaa | gatggatata aatttacatt | gatactgtaa | ggtagtaatt |
| 13141 | attogacto | r Editicaaca | tttaatarra | ttettgaaac | aagagaggat | tctatgagtg |
| 13201 | tctacoctae | toggettaac | atgattoggo | taattattaa | tatesesses | aactgcaata |
| 13261 | aagggaactt | cgtagatatt | gacgatgtta | cactaaatga | taacatcaan | attattatt |
| 13321 | atategatgo | r aagcgacatt | : datoocaoto | acogatogit | ttatacagga | aatcctaatc |
| 13381 | astaçascac | : TATECCAAA; | agtcagtett | attettatt | aaagagtgaa | Aattetesaa |
| 13441 | CCBCGCBBBC | : taaacqatat | : Ottictiatt | Caaatacatc | Caddetaada | Accsadtett |
| 13501 13561 | tttctgcgaa | ggtaaccact | accagtggaa | aagttatttc | aataactcaa | astagestta |
| 13621 | GRACARCECO | ggtagtaatt | aatgcaatag | atgcaactaa | ttttactgat | gatgaacttc |
| 13681 | actettata | totocataco | tocacaato | aatcctatac caagaagctt | gtcacateaa | tcatctacaa |
| 13741 | qqqaaqatta | Castastaac | togacttogo | cacaaagttg | ctactatasa | aattggcgtt |
| 13801 | atggaggato | agagtcaacc | cactaattaa | ccgctggttc | aatctttcca | ccangagecy |
| 13061 | argarggccr | grggeragar | aatgatatcg | cactaagtgg | tatoocacac | AAAAGCTACA |
| 13921 | atgttgatac | tggtatcaat | caattgagtt | ttacccqtat | tataggtaaa | ggtttcagct |
| 13981 | gggtttataa | tatatecgga | cttgatagag | qqcatqccqt | tattattatc | gaccagtato |
| 14041 14101 | gtaacaaata | tagaatatta | ttccatqccq | ootatoaaaa | ctcagatect | tacttotott |
| 14161 | acttgaceta | atactaaaaa | tagtgttacc | aatggtgtgg | tagcatttcc | ccaatacgaa |
| 14221 | aatteettaa | grygerycaa | aceatcaces | ttttcacagc tgagtgacaa | CACCCCCCAA | gtatacataa |
| 14281 | ctasteattt | caccaccoct | atcaataata | gegttgacce | tegenenge | ttattcaag |
| 14341 | Cacazattac | tttaggtcac | attottoota | accotaatct | togacctact | ctacctetta |
| 14401 | ccttaageta | なならこここでにな | aacaacao | atattooatt | tgocattggt | TTTRATTTTA |
| 14461 14521 | gattatcagt | CTACGACAGA | aaaaattctt | tattotctct | ttctaccoot | GARARATTA |
| 14521 | aagtcatcga | BACCGATARA | acagtaaaac | ttcagcaaaa | asaactcgac | aatttacgct |
| 14641 | tottaactoo | tttcaataac | aaltgutate aatggette | gtattataca acctgaaagt | Contains | gatattgaag |
| 14701 | ctgctggaca | tgctatctat | attgattgga | attttgaggc | AAGTGAACCT | ACCCTAARTC |
| 14761 | gtatttatga | tgatctggat | gggcatgata | taccattatt | aaacctagaa | tatcaaggac |
| 14821 | Caattaaaac | gatattaacg | cttttccctq | SDDSSSSDD | aggetacegt | accoacctac |
| 14881 | gctttctaaa | cagacaattg | Bacaggatee | acaacttag | cttoggtaat | Gaaaaccctc |
| 14941 15001 | teacttggtc | CTTCGGTTAT | acccctatag | gaaaaaatgg | tattttgggg | caatggataa |
| 15061 | caaytatyat | ccccaatca | ggattanaag | aaacggttaa | ttatagtaat | aataatcagg |
| 15121 | agattectag | agcaggacaa | cccatatac | cggtgttgcc aagcagaata | ttatgtcaca | ttaatgaagc |
| 15161 | atgreggtgg | gggatctaat | ggtatatoga | ataataaatt | agataatetg | tategattes |
| 15241 | tgacagaata | taattatggc | tctactgaat | cccccadata | taaagataaa | CARCCCATC |
| 15301 | atcamatagt | ccgtatagaa | ⊏g⊂acataca | ataattacca | tctgttaact | ECCGAATGEA |
| 15361 15 4 21 | agcaacaaaa | tggatatata | Cadacaacto | ADACHGCALA | ttatoctatt. | Attendemen |
| 15421 | attttgattt | rengecetes | Caattceagt | toccasass | CAABACAGAB | = c++ aaaa+ = |
| 15541 | ccctaaccaa | Actastess | agtgaaatta | Ctgaaaccac Cacaaaaaat | atttgatgaa | agcggaaacc |
| 15601 | gggaatacta | ecetecoaet | GGGGAGGE CG | ataattgccc | AATETECCEC | tcaacgcatt |
| 15661 | cuegetiege | | atacaaactc | cotatoacto | cosstttsss | astastas. |
| 15721 | agameter. | GCAUTATEUT | tataoccica | Etadesates | CAMPESTATA | |
| 15781 | | | UCAACECAAC | TECEDAREA | アカクトのチョナーナ | |
| 15841 | cyyaraaay | ryaacttggt | COLLIATION | | 21#42### | **** |
| 15901 15961 | yeseesttte | rrerareata | CATABATETA | CCTATACAAA | 2020020020 | |
| 16021 | | | CAUDALARTE | TCACAATTCA | CCCCACACAC | |
| 16081 | atoacaaatt | gogtcgatta | Ctcacacag | atactaanga | cattgtaact | Calatgtect |
| 16141 | ctctgacata | Tgattatgaa | ctanatanto | cctteattc ttcaggatga | cadracacca | tatgccasca |
| 16201 | | 33224522 | UUCAALERDO | TTCCCCAATCA | 3770020000 | |
| 16261 | | weder-rade | MACECCARIO | OTGALGGARA | 2+++++++++ | 20000000 |
| 16321 | among ca cyc | cyaaceeyyy | CUTCATERER | Catctacata | CT. CC. C かった かた | St |
| 16381 16441 | yy | 44444666 | UATABOOTOC | ATCTATCT AT | ~+ ~= = = + ~~ | |
| 16501 | A4444 | -4-4-4-G | CACLODAGEE | <u> </u> | | |
| 16561 | -2 | 4 a chi c cacc | aaacacttae | 22200222 | C | |
| 16621 | 3-33 | | CCAACCAAC | 23 CCT = 7 = 6 = | ~***** | |
| 16681 | | | CATACCETAR | CTCCCCAtcc | cecana. | |
| 16741 | | | LUCALLACEE | accentatga accentatga atcgcaaata | T 3 3 7 7 3 7 3 3 7 3 7 3 7 3 7 3 7 3 7 | |
| 16801 | | | | | | |
| 16861 | tgagt gatt | aacacaaagt | caagatgaaa | gacgagtatg | docttatact | tattogggt |
| | | - | Fig 2(i | ::\ | 224+- | gycag |
| | | | | 6 L X | | , |

Fig. 2(iii)

| | | | 6/14 | .• | | |
|----------------|---|--|--------------|--------------------------|----------------------|----------------------------|
| | 5ed2.seq | | | | | |
| 16921 | gtaatgaco | a atgeceate | a acagtaata | a caccagatgo | l tradettato | |
| 16981 | | | | | | |
| 17041 | | | | | | |
| 17101 | | | | | | |
| 17161 | | | | | | |
| 17221 | | | | | | |
| 17281 | agactacto | t agattacoa | t dacctoaat | c gccatattgg | tactoaayat | togtcaataa |
| 17341 | | | | | | |
| 17401 | ggaaattgt | g tgatagete | a UUCCALACOI | tagatateca | CCLARACEGA | gaaattggac |
| 17461 | | | u uluanacio | . ATOGAGEMEN | 7722225 | |
| 17521 | | | u cludalcani | | ~~~ | A |
| 17581 | | | | | | |
| 17641 | cegeetgte | a caccacatt | c gcagatggg | Cagaagacca | tootacetae | ggcaatatca |
| 17701 | | | a ccuacadadr | , <i>гагаегае</i> ае | T^*** | |
| 17761 | atatcaggc | t gaaatatga | t aaggetogte | gagtaataaa | tatazataza | argeeggata |
| 17821 | atacggaaa | a ctttaccta | datacatto | gcagattaca | 222cctgat | aaccatggaa |
| 17981 | atggttatg | a tccattaaat | COCTTACTOR | gtcagaaaac | agetaggeta | ggtagtgtt |
| 17941 | tgtactatc | ggaaaccato | ttootcaate | aagtacgcaa | tageaccide | gattgtgage |
| 18001 | tacggacgg | T tgasacaata | atcocacac | aacgcgcatc | -yyayaaaty | acceptitat |
| 18061 | | - ~ | , acattaacos | | 355C++++ | Ac |
| 18121 | atagtgcata | tggaaagcat | aaatctacao | casatgacgc | ttotatoote | CHAGRAGERE |
| 18181 | 7-7 | | . autoumutma | CACATTTAGG | T & & T M M T C & T | |
| 18241 | | | . caractccad | BEAUCTERNO | アクククチャッペー | |
| 18301 | | | . ctauuauacc | CAATTAATES | | |
| 18361 | -3-3-433-4 | | UDDALLODEA | TOTOTOTOTO | アクタッチャッチャー | -4 |
| 18421 | | | | | | |
| 18481 | | | . uuuucactom | OTOTTTAPATE | 7755455AA | ^ |
| 18541 | , - , , - , · | | ······ | | | |
| 18601 | | , | . ULLUBATCOO | CCRTTABANA | Temes | |
| 18661 | ~~~~~ | | uacuuudaaa | accertact | T 3 3 3 2 2 2 2 4 4 | + |
| 18721 18781 | | | 9-44-00-0 | CAMATAMAA | | ^ ^ ~ ~ ~ ~ ~ ~ ~ ~ |
| 18841 | | | auccaauocc | ATACCGATAA | C++++ | |
| 18901 | | | | | | |
| 18961 | | ~444~~~~~~~ | a - LLUALALA | CLCCLGAACA | | |
| 19021 | | | | UAUACAAACC | このアナヘッチャッ | **** |
| 19081 | ~ | | CLACATALA | TOOCAARATA | Tatesacet | |
| 19141 | | | atatcacazo | CATEBOORS | 33f | |
| 19201 | | | LCULALONIC | CRCMMAAAA | * | |
| 19261 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | LLLCOCCCC. | 73T33C6T66 | ~ | A |
| 19321 | | | | | | |
| 19381 | | 33 | LCEGCCCC | AATAAAAAA | +~~~~~ ~~ | A - A A . |
| 19441 | | | | | | |
| 19501 | | | | | | |
| 19561 | | | | | | |
| 19621 | | | | | | |
| 19681 | gaagcaggca | CECAGACCAA | tagaaaggg | acgcagttgc | Castaaagca | tactggcatt |
| 19741 | agcaaggtte | atcasttoog | tracaatros | cagacctgca | TOTTECHACO | ggccaacgaa |
| 19801 | gatatettea | Cotoaataaa | | ggtcgcgatc gagaacttta | gcaattttta | ctggtgtttt |
| 19861 | gccasaacag | taggcaatta | acacccacta | agtcatctca | -ccacaatca | acccetcaa |
| 19921 | accatattga | aataataata | Costcagage | ctccgcgaga | gcatcaaaag | cagaaaagtg |
| 19981 | aggcaacqcc | agcaagaaac | SCAUSCALS C | cccgcgaya | acaccaagag | caactgcaca |
| 20041 | gtgattacca | CEGGBBBBC | ttttcccc | ccccaatcc tgaaggcage | accagnitie | gatattette |
| 20101 | | | | | | |
| 20161 | gestgaaacc | agaaatgagg | CAAAAATTAT | attaatgate | LBATACATCC | atgaaacaga |
| 20221 | tacacccaga | attocagoco | CCAtttaaca | gataacccgc | aaggaarct | gcccgaccga |
| 20281 | agaaatccgc | ggcastacca | destacast | ctttttcaga | Catacggcac | tgtcacggaa |
| 20341 | ttgcamaacc | CCTCCGGCAA | CARCOCCER | acccagege | Egaggaaget | gataggccaa |
| 20401 | aggagccaca | aacaatocaa | AAAT GATCAT | acceagegee | agcactggcg | gattgcaata |
| 20461 | aggenecgaa | =agcagttcc | atotattano | aattgcgcca | agcagtgtcg | gagcaaaagc |
| 20521 | Cassagata | taaggaaacg | taattctaag | tatateness | gcchangaag | ccagogaaat |
| 20581 | tgtatccgta | aatcccqqcq | Cadtcacata | taaatcacgg gatgatccaa | y - Langacab | acttatecgg |
| 20641 | CACTGAGACO | atagecagas | trantotone | gatgateeaa . | adracades - | tracacctat |
| 20701 | tgttgcttca | tecestatt | gatttttata | troggenaga : | - La La Lg Caa | taaaggtacg |
| 20761 | ABANGCOCCC | tetgeaage | tacacceta | cccygcaaga : | araggaacaa . | **gcttgcga |
| 20821 | ggcatccatc | gccattcctg | Caccanana | -aggreaggt | estttaaagg | Crecessor |
| 20881 | CAGCACGCGA | Generates | tcatterace | acyaycanta (| arggeateac | gamtaaagec |
| 20941 | ggtattgttc | taaaattata | ***** | gactyceges (| agtgatttca : | ataagttcat |
| 21001 | caggesteat | Aamaatooca | tatasagga | accorded to | seastgtaaa (| gctateceat |
| 21061 | Ctaacagaca | BARACCETOS | ctranteta | cccggcggg (| eagcageegg | tgtttaaagt |
| 21121 | attestasse | CCACtttocc | ~======= | | ecettagee (| ttaccccgag |
| 21181 | Casacaccat | ctatcattas | at attores | gcataacett (| cottageac | atgatettge |
| | | | | acrearate (| ectgeteasa 1 | teccaactit |
| | | 1 | Fia. 2(iv | ' | | •• |

Fig. 2(iv)

| | | | // 17 | | | |
|----------------|--------------------------|-----------------|-------------------|--------------------------|-----------------------------|--------------|
| | ed2.seq | | | | | |
| 21241 | ttgagcaggt | tcccactaco | , atggttaigt | ggcatgtaat | tagccataat | ccaatacatt |
| 21301 | creragarage | . gelgeatata | ı gaggataqa | ggitgcadco | cttcatacat | CARTCCTTOC |
| 21361 | ccttgcaatt | . teteagetaa | . Agaataacca | agataacaac | adtogaacoc | gécarat : ca |
| 21421 | acattagtaa | aattcgccac | : acccataatt | tcacocteat | CAGAGECCAA | taatacses |
| 21481 | ttaaatgtcg | , cattctgccg | , ttgtaactca | gegatatagt | tcaaccgatt | TOTOCATOCA |
| 21541 | gagggccgat | aaaaactgco | : gtcccttatt | . goctcccata | gcttcaggaa | みたごたたたまたたた |
| 21601 21661 | tctgaataat | . actcagecaa | l togataagea | tcacuttcat | ataccagaco | AACAACCAT C |
| 21721 | ctatecgtae | raaatcgaat | tttgggcgat | gcagaacgat | aaccaaacat | gccttetect |
| 21781 | gatatttgt | trgamamat | tetggataat | ttatctctta | ttaeaattat | tgcctattac |
| 21841 | tastasgana | * ***** | tetataacce | tctaccttaa | agatgagatt | agggtcagaa |
| 21901 | 2001009000 | acetteset. | acteteteat | attttagtgg | tgcgcaatgt | cgttggtttc |
| 21961 | ttttttata | gtttttccc | tasttroset | gctatttgat tcgtttcgtc | aatttattag | ttgttttagg |
| 22021 | attgattgtt | gatttcactc | toonacttee | tcagcttgtt | gaacaacccg | getgggegge |
| 22081 | caataacaca | ateggagace | cattteetee | caagecgatg | attettaete | cygggatett |
| 22141 | occarcacto | gattttactc | toatoocaat | ggcacatgag | ccatagatat | tactacttta |
| 22201 | ctgcgttcta | tcaggattog | GAGGAACATT | gtttgatccc | cccagagcag | ctttaatast |
| 22261 | taagttaacc | egtocceato | #GCG#GGGG | tttttattca | atcetoatoa | tocaggacag |
| 22321 | cgcaggtgec | gtggttggcg | Cactcatcgg | aagctggttg | ctocasteto | attteastat |
| 22381 | cgtctgctgg | attggtgcat | ccatttttgt | actaaccaes | ttatttaaco | CCLOGCTACT |
| 22441 | gcctgcatac | cgtatttcaa | caatccgtac | tcctatcaza | Gaaggcatga | tocoonttat |
| 22501 | tagagategt | cggttccttt | actatotoet | gacattgacg | GGttatttg | testatement |
| 22561 | acaagtgatg | ctgatgtttc | cgattattat | ccatgaaatt | accoocactc | ctactoccot |
| 22621 | caaatggatg | TRIGCCATIG | aaaccgctat | ctccctgaca | ttoctctatc | ccatcocaco |
| 22681 | ctggagtgaa | aaacatttcc | gactggagca | gcacttamta | gcdgccttat | ttttgatgag |
| 22741 | Catetgeatg | TTTCCGATCG | gctgggtcaa | tcaattacat | acactottto | acctacttta |
| 22801 22861 | cccgcccat | ttaggtttgg | taacageega | tectactest | gaaacgctga | atacttcact |
| 22921 | testesenta | cgggcgcgtg | gengttatat | gggatttage | egtetgggtt | tagetetagg |
| 22981 | gccccantta | ggttacaccg | gragagagg | gctctatgat | actggccgtg | acttgaatat |
| 23041 | torcoastic | aatcagaace | tyctaggatt | gtetggtttg | attaccattt | atgetettea |
| 23101 | gaaatagtgt | assatctocc | Cattonanat | tgtgatgctt aaaaaggagc | ggtagacatt | AATCCCATEA |
| 23161 | tadgggage | attagtocto | dtaggattag | tcagcggctg | tratrastet | agacttet a |
| 23221 | gcatcaacga | aggtotgatg | aatgattatt | tgctcaaaaa | agtgcattat | CACABABABA |
| 23281 | tcagcattce | aggrategeg | aatgecaata | tcacactaga | ggatttatec | agccagatag |
| 23341 | gccgccagga | tcctgaaaaa | attgaactat | CCGCCCAACC | managttcaa | Cttgcaacac |
| 23401 | Lacigggiac | gattcagget | gatetgaeac | tcactatcaa | ogetaaaccc | gtatttgatg. |
| 23461 | Cagasaaagg | cgetatttte | gtgaaagggc | tggaaatcgt | agactaccag | 868868660 |
| 23521 | aaaaagcagc | ggctccggtt | abdgcattqa | ttecttatet | daatacctct | ttgagtgagt |
| 23561 23641 | TTTTCGATAC | tcatccggtt | tatgttetga | atccagaaaa | aagcaaggec | gaggcagcag |
| 23701 | CCCCacaatt | cgctaaaagg | ttggaaatta | aacccgggaa | gttagttatt | gggttgaccg |
| 23761 | +++++++ | treategree | ttgaaataat | aagggcaaat | tattaatgga | taatttgccc |
| 23821 | tatorroaca | ctatcactca | #attetacte | tegeetgtte | argacerreg | gctgaactat |
| 23881 | tdacaatcdc | CAGCGEECGA | tatataccac | catcacgcaa tggttgcatg | rgeetgeaac | gcttcacgag |
| 23941 | actoccaca | CCARGGCEAA | agatactcat | casacaacgt | anteratace | traccgagga |
| 24001 | cttcagctgc | ctgatcttcc | AGCCALGACA | cagecagean | tagagagaga | aactcatcat |
| 24061 | caggagtatc | agacagtggc | attoecostt | ctgtcassas | ctgacgtact | tcactttett |
| 24121 | crecgreege | ataatcagat | cgacaaacag | caacactcoc | coatteteca | GERRACERGE . |
| 24181 | Cycyacaacc | ggctgccatc | actgacaatt | cactottto | CLOLABACON | tccsaccatt |
| 24241 | Catectgeec | caaaggccat | TCTTGTTTTA | atttcccete | Adcaatcatd | Gtoattamag |
| 24301 | gccgcaaaac | Addurectede | aarocacaar | tabacaatot | GCCCARTATO | COOCECEE |
| 24361 | ragadaattc | GCCCATABCT | Coatteaate | ににみみせみみみせせ | atcasatann | ~++-+ |
| 24421 24481 | ctwatcdcct | GCC GCC GCC GCC | Baadcaactt | DECARTAGE | acctacceta | +======== |
| 24541 | cagerggear | rreaccetge | accatecore | ggatattttc | acadatoaca - | tecategora |
| 24601 | ccccaggaat | agigicades | qcaatatooo | dagteacatt | BARBORATAL | ******** |
| 24661 | # change are | arrigation | ggttctcaa | Camacacatc | AAGGGEEGGE | Cotoonet. |
| 24721 | taatcacata | teragrancy | agcagatect | gttcgacaag | ctgcgctcct | cgcgccagat |
| 24781 | tatcaaaat | etcascegat | tttagttgge | tgastastga | cagattaagg | ataccacgag |
| 24841 | tgtcgggagt attgctcttt | accayyyaya | aggittaatea | gcaccttgca | gccagaaaga | a matcaccca |
| 24901 | attgctcttt | 22227c2227 | treette | tategagttg | ttttgacgtc | ctgctccaac |
| 24961 | accgcacatt | gecgatasca | | TECCARTERE | acttcgccct | aatattccgg |
| 25021 | cccctaatac gctgttcttg | otatcottta | tattcatca | ggccacgegg | agcaataggg | TTCCARAGGC |
| 25081 | -3300000000 | ~~~~~ | CLECCERTER | CTATATATA | <i></i> | |
| 25141 | | | LLLLLCOME | CETGETTGAA | 337 <i>000</i> 54 <i>00</i> | B |
| 25201 | ccagtgcgaa | tatocettt | adecertman | anttacet | aaregeateg | acaccggcac |
| 25261 | | | UDCCCCCCAT | CACCACTGAG | ~~~** | |
| 25321 | ~~39~~3~~3 | -4 | CCLCGEATER | ふたて たみて からかて | *** | |
| 25381 | | | LACCCCTTAT | TATTTTTTA | | |
| 25441 | | | | | | |
| 25501 | taacatattt | accactgoat | attacasass | acacatease | tttagtasar | yetaccagt |
| • | | _ | C:- 0' | -/ | | annert char |
| | | | Fig. 2(1 | / } | | |
| | | | <u> </u> | , | | • |

| : | chrim | Sed2.seq | | 8/14 | | | |
|---|----------------|-------------|---------------|-----------------------------|--------------------------|---|---|
| i | 25561 | tattcaaat | t otttttat | t tatataetc | | | |
| : | 25621 | ctgttgacc | c ctaccetae | t tgtgtmatca t tttccctat | gtageacea. | = ctgaaaaaat | cgtc taagc |
| i | 25681 | | | | | | |
| | 25741 | | | | | | |
| | 25801 | | .2 ~~~~~~~~ | a alaulaaaa | : | · ++====== | A A |
| , | 25861 25921 | | | | L LECETORCES | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | 25981 | | | u | - ACOCCTOMA: | | |
| | 26041 | | | | : CATCTTTC39 | 757558444 | |
| | 26101 | CTCBSCBBC | c toctctaate | ggaatgtett | . grataggiga | assacctcgc | Aagggttcac |
| 1 | 26161 | | c ceequiacai | L acccomacaa | ころじひみ ごごみとん | | 4444-4-4 |
| | 26221 | | m macricality | LUUUUEECCE | OCECCATET | | L+-L |
| : | 26281 | | o guarragares | , acateterae | COGATAGEAA | ************************************** | |
| | 26341 26401 | accycygae | r agracyates | , doctreact | CECCACECCA | | 2000000000 |
| | 26461 | Gaccage g | y accinctate | LMACOGGAC | COOCAAACAT | こうりゅう こうりょう | ++ |
| | 26521 | | a adraderrage | ctctcgatat acagatttca | CAGAGACGEA | 226226622 | |
| | 26581 | taccttgct | t aaacaaactt | teggeetgaa | carcrarate | getttcaacc | agatettgeg |
| | 26641 | | - 0.000000000 | CACOCCATAT | TOTTTTP9+c | + | |
| | 26701 | " oy course | - Luccattiga | SETTED SEPPE | CCTGatcoot | <i></i> | ** |
| | 26761 26821 | | y erennequid | atteceases | LLCCACTTAA | +a+ca++ | |
| | 26881 | | | BALLOBARAL | BEEChanate | 73 C++ 0774+ | |
| | 26941 | aattgagtg | t taacatoaca | gcccagatat | gggatggttt | agcgtttacc | gatgtagaaa |
| : | 27001 | ~ , , ~ | | CRUCCCCCCAC | AUTATEMBER # | グナグラグナー・ | |
| : | 27061 | 7 9 | | ueuaaacccc | CCCCACCCC | 77.773774A++ | |
| | 27121 27181 | | · vyyyyycaac | attootttc | AATTTTCHAA | 亡けたみずかりをとっ | + |
| | 27241 | 79-09. | . = | GLEATICACA | CCATCCAATC | 2C22taataa | |
| | 27301 | ~~~~~~~~~ | , Armediadic | atactoctct | TECENATAGA | # * # * * * * * * * * * * * * * * * * * | |
| | 27361 | aggetgaaca | detategee | gggtattgat caggcccgat | cactanger | atctgctgaa | tetegacaac |
| | 27421 | | | CCCCAACTT | CCTTATENCS | TTATTPACES. | |
| | 27481 | | , 3 | CCACCCAATT | COCOCCEART | GCC11ccc+ | |
| | 27541 27601 | 3-3 | | ucaacacaaa | TCCAGGCCT? | ****** | ' |
| | 27661 | | | CCCBAGCCTG | CAACOATOCA | 2121000000 | |
| • | 27721 | castatttcc | atgagasats | gogccaacac acaaacgetg | tectetacae | accggaaagt | gataacggcg |
| : | 27781 | y accyac | · rearcascc. | CESATASES | GCAACEATCA. | ナンムナトトーニャル | 404455555 |
| | 27841 | | . yeruuutut | acaacatcat | COLUMNICA | ナナババルトレンシ | |
| | 27901 27961 | | | aa LLGacete | CANACCACTT | 20200 | # 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| | 28021 | 30 | · CCCGCLCCE | BBACTTACTO | COTCCTATOR | T | |
| | 28081 | Ctattgagee | tatttccctc | Gactttaacc geeccacete | gegetgetee tatteettee | tgtcaatctt | tgccggttca |
| | 28141 | -333 | | LUBLUUCATO | CTOOCACOS | | |
| | 28201 | | | 4 L COUDOGET | OCCATCTCC4 | D† Mttmasst | |
| | 28261 28321 | | | VAACEDCCCC | ACCCTCTTA | TTAPPPPAAA | |
| | 28381 | | | ALLUUCACAA | accartacta. | . ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | |
| | 28441 | ttcectttgg | CCtteaacta | tgctttatc gagtatetet | treggagett | atggattgat | tattgcgatt |
| | 28501 | | | | | | |
| | 28561 | | 4444466644 | COLOMCACCA | CARCTCGATE | | ^ |
| | 20621 20681 | | 44 4 COURTER | LUCELCECTA | TTTTTTTTTT | * ***** | |
| | 28741 | | | | | | |
| | 28801 | | | | | | |
| | 28861 | gttgatgaat | ttgtcagatt | tattgccact | Chatheren | Tgggaacgtc | gattegtgat |
| | 20921 | | | | | | |
| | 28981 29041 | | | | | | |
| | 29101 | | | | | | |
| | 29161 | | | | | | |
| | 29221 | gtagttaaag | ataccaccac | Cattacacta | ccttoggatc | TTTACCABAC | egeogagega |
| | 29281 | | | | | | |
| | 29341 | | | | | | |
| | 29401 | | | | | | |
| | 29461 29521 | yattacagec | aagaagatac | ctggagtcac | tetgeegate | aatttegaac | attaagcaca |
| | 29581 | | | | | | |
| | 29641 | | | | | | |
| | 29701 | atactcqata | accettattt | Garcage tt | caacegcagg | graagggcat | tttggggcge |
| | 29761 | catattgaaa | tottoatcco | ccatactatt | ggccgggg | gratacgcca | gcgcaagatc |
| | 29821 | catatggttg | atatogoogo | cggacacgga | COCTATATE | y-yeecagaa ' | ratgeetgtg |
| | | | _ | Fig. 2 |)/:\ | yuuyuat | Leacyattic |
| | • | | | FIG. A | Z(VI) | | |

Fig. 2(vi)

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|----------------|-------------------|---|--------------------------|--|---|---|
| 29881 | | d attorators | | | _ | |
| 29941 | dcttat tt | g attotattt | teteaeggga | c tatagegaaa | tcaatgttaa | tcaagggcag |
| 30001 | aatgstgaa | g aggagegege a geateteate t tecetoata | Cattacocc | assattegtt | ttattatogg | tgatgccttt |
| 30061 | | | | | | |
| 30121 | | | | | | |
| 30181 | | 2 | , ccercarda | : adtcaaccdt | . ggarrateen | 77455A |
| 30241 | | | | : occoantern | | |
| 30301 | 3 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ; LULL.COMET | . accssaceard | ************************************** | |
| 30361 30421 | ada co co ag | e cyyoacacca | . cardcactci | : tctctcoata | . dicateases | CCtataante |
| 30481 | acayy cy co | o corggorari | . 9666666 | : ccotttttet | . TECETARITES | taacaraata |
| 30541 | abccagece | a cyycacaaag | -aagcgatgt(| : aacactataa | <u> </u> | GGBBCBtBBC |
| 30601 | tegttattt | t ggtcatggtc | tegeegtge- | tactggagta | tcgatctgtt | ctacggaata |
| 30661 | gcatcactg | a totgtaccea ttgcctgtgt | Engattetta | cagtggette | acggctggcg | attaatgacc |
| 30721 | CCCACCACAC | aaggcctatt | touctoute | tttaatcaac | tagaattatt | gtteteeege |
| 30781 | | , commence | gcacattatt | ctactataat | tactetaact | aract stees |
| 30841 | geceasy sys | . 9.44 | ucataaatta | ************************************** | ^/+ ~ = ~ + ~ = + | |
| 30901 | | , caecriadic | UCACCATTE | AECGAEGEAC | +++~~~~+++ | + |
| 30961 | 2 4-0 | | uccourter. | TACCOCTAGO | ACT | |
| 31021 31081 | -3re-doc | . <i>44004</i> | LUGELALLAL | CTGBCBGGCB | ~~~~ <u></u> | |
| 31141 | 3-3-1 | . ARRARARA | | CCOCCATAC | CT SCLState | |
| 31201 | ~-~~~ | 3 | | TCCCCTTTTC | | |
| 31261 | ctctggttcc | ctgcacgetg ggcgtaaaag | Cocaccttc | arceteta. | tgggageatg | gctctcttat |
| 31321 | Bychrychi | . yccaycccgc | recaded | adtatectta: | ATATAAAAAA | teseteses |
| 31381 | | | QULEGALLAL | OUTTOCCACC | CCCBBBCCCB | |
| 31441 | | | a ccourage | TOTACOCTOR | | 74144144A |
| 31501 31561 | 3-49-44 | | deregasero | TCACOCACTO | COSTAGEAGE | - mesage bea |
| 31621 | | . =3-= | a Latuatato | AACACEMECA. | Taggaztgat | ### B B B B B B B B B B B B B B B B B B |
| 31681 | tacctataac | tcacgttcag | acadacacat | ctggatgccc | tgtctcaatg | ggcazzaggc |
| 31741 | ascottasas | ggggaacata | ttataterae | actatetect | atcagcaaag | tgattatege |
| 31801 | tgcaatgctg | attgctgtct | tcaacactac | COCCTTABAC | | Egatogogac |
| 31861 | | | ectoccasts. | CESTEMETAM | ~~~* ~~ ~~ ~ | |
| 31921 | | | CAUCUCCEDA | ABBANGCOCC | 737ttrastr | |
| 31981 | 3 ora a ca o a c | ea ceed crec | LCCAATCACO | CACACAGAAT | MATMMETTTS | 300000000 |
| 32041 32101 | ~~~~~~~~~~ | GRAGGAAAA | COMETOGECE | DATECTOCAA | て ウイス たる クケッケ | ++++ ~~+++ |
| 32161 | ya | LLYGERLEC | CACCECTAR | teagetttaa | tetenessag | tragaareta |
| 32221 | tattgggtga | attttetega taaaagagat | Actottacat | attanctanc | ttttagacct | gtaacacctt |
| 32281 | tatttttgg | ttttagatta | aatgaatact | COTESSATTS | Atgogethes | gcggacgcct |
| 32341 | 3-3 | acceracyce. | UAAGGELECT | CACCCCCCCC | CCCCCttttt | ADMANASA |
| 32401 | # c-3 c c 3 3 3 4 | LLEUCGLUGG | FAFFWECCCE | Atcccatter | CARTMORTOR | ggggattegs. |
| 32461 32521 | -2-23-2-5 | a-ay ca | LUGCELOTAT | actorcocta | temeranest | * = = = = = = = = = = = = = = = = = = = |
| 32581 | ~-999-9 | gereergera | LAGCGETECC | aacccaacaa | CGGC++++a+ | |
| 32641 | | CHCHYCEYLL | LUGUETOAGE | ddcctdctca | ttacaseaet | ~=+-+ |
| 32701 | totattacco | ttgtgatggg | ttaggeaegt | tttggsegge | Ctategaata | tattcctatg |
| 32761 | aatttctttg | ttggatttac gcctgaaact | GGCacatata | GCCECCACCA | tegetaceat | gcaggtgcan |
| 32821 | ~ | | | AULUTEL | 77474444 | |
| 32881 | | | UEEELLUUUN | DEALROTTER | たったがり カー ムナト | |
| 32941 | | | | | | |
| 33001 | | | | | | |
| 33061 33121 | | | | | | |
| 33181 | | | | | | |
| 33241 | | | | | | |
| 33301 | | | | | | |
| 33361 | gctataatac | tegecegtte attecetget tegecegear | datattatta | aracadacea | gtgcaacttc | cccgatagec |
| 33421 | | | | | | |
| 33481 | | | | | | |
| 33541 | | | | | | |
| 33601 | | | | | | |
| 33661 33721 | | 3-34-4-400 | UULLALEUNT | COTACOBATE | 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | _ _ _ _ _ |
| 33781 | <i></i> | -3 | COURSELLIAG | 202222227T | 77772244A | |
| 33781 | | | | | | |
| 33901 | | | | | | |
| 33961 33961 | | | | | | |
| 34021 | | | | | | |
| 34081 | gactaataga | agactagegt | aggaatttat | tacectetec | cagttatget | ggcagagggt, |
| 34141 | accacgtcat | agartagegt castegett | ayyanıttıt. Aatttaare | | ccagtteegg | gaaattttte, |
| | <u>.</u> | | goecc | ayyeargmet | -cagetttgc | caatggcana. |
| | | Į. | Fig. 2(vi | II) | | |

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| | • | | | | | |
|----------------|-----------------|--------------|--------------|--------------|--------------|-------------------|
| 34201 | dCadacac | IC catcacatt | + ~~~ | | | |
| 34261 | gcgatccc | a cauccatac | c ggcattttc | t ggatetggg | t gegetteaag | gaacagacct |
| 34321 | | | | | | |
| 34381 | | | | | | |
| 34441 | | | | | | |
| 34501 | | | | | | |
| 34561 | | | | | | |
| 34621 | agctqaatc | a catccacca | G atconona | c agateggtet | ggcgggcaag | gaaggctgga |
| 34681 | | | | | | |
| 34741 | agccctggc | Cacdataad | a ocometama: | agricultyae | agattttcat | cccctcttcc |
| 34801 | aasacataa | g gaatgccca | o tttttatata | acggtgacat | cettateaaa | agacgcttta |
| 34861 | gccaaatcc | c gtgattcaa | g dacdtteat | CCACCAAACA | agrgetcaca | aatccgcatg |
| 34921 | | | | | | |
| 34981 | aagggcaaa | t asatttgct | tatcaataa | aaaataaacc | tootcatacs | tretettgtt |
| 35041 | | | | | | |
| 35101 | ttcgacasa | taactcaaa | CCGARACAG | aatatgattg | arcyggreet | cagggcaatg |
| 35161 | | | | | | |
| 35221 | ggccttaage | gccagttcc: | tettttt | ttccatcaga | datactagea | ccactteget |
| 35281 | gattttgcgc | acgaggetga | cattategge | ttcctgcaaa | teetetet | rggrgreagt |
| 35341 | agttgggcc | atattaccti | ttaaccagac | atccagcgta | tattesttes | ccagacgaac |
| 35401 | attcaaggg | a ttaatgaaco | ; aagtgggctd | atcaagcaaa | tcaatcccc | atatorette |
| 35461 | gattggaaat | : atgacaggct | gtaccgacag | cccagcgcc | tgagcaatet | gcgtaaagelg |
| 35521 35581 | cgtacccant | gatacaggto | agestigacg | tgaatggagt | aagcoat cca | GCC-Cacacac |
| 35641 | atctgataga | castacacco | : cattagetee | accasacttc | Cattecenat | AAAAAAAAtat |
| .35701 | tagcagcgaa | tecaattte | ctttggaatc | ggtaatggag | gaaagcctct | acconditte |
| 35761 | tttaaccaat | gcagttagct | gctcactcac | cagagtetga | ggaaaatcag | GGCGGataat |
| 35821 | CCCLGATACC | agestaatac | cgt=aatcag | ggagtatta | ttgmattcat | Aattaactat |
| 35881 | andterest. | LECATECCAT | cgacctateg | tgatgcgttc | attaccgcca | taatcctgaa |
| 35941 | tecaceate | ttococcata | cccttctcta | assataggtt | tetgacaacg | qttecctatt |
| 36001 | Chattaccta | CCCCageaat | agccatccat | ttggtgacag | gaaatggcgc | gcctgtccca |
| 36061 | | | | | | |
| 36121 | Caatcatato | anattette. | agatgaggat | Cacgoteato | tatatacgga | ggattgctga |
| 36181 | Cattotoaat | ggccagttt | cracecaetg | ctgcaaacca | ctcactttgc | aaaaaattca |
| 36241 | catcagagtt | gatatemace | cctatasas | tttcagcatt | gtgttgtgcc | agcatcacgg |
| 36301 | gtgcaatcoc | SCCCOTCCC | Ctccccacat | Aacaatcatt | cogotoactt | gccaatgcca |
| 36361 | attecaatge | Cttctccacc | AGREATTER | ccagaatccg | ggctggagaa | tcaggcaata |
| 36421 | atacggcasa | COGCAGEGAC | Cadaattcag | carragggeg | cyggatcaac | gtegetggeg |
| 36481 | cctgaatgcg | GCGCACCAGC | Addetates | greetest | aatataagct | accggctctc |
| 36541 | tttcatcgaa | agcaatcaga | taagtacggg | aacgccctgt | ctetteegat | gagattagcg |
| 36601 | ccgcatcacg | Cttagggetg | tcactttcag | acaactgggt | catgtateee | aecaagattt |
| 36661 | attggtaatt | Cattantect | getetgaeag | tgcagacagt | ageegeatgt | tgtagccagc |
| 36721 | aatgatcggc | tgaataagca | tatecagtet | gcettetate | ryarctgcct | gatattcgat |
| 36781 | cgtcagattg | atteggtgat | cagtcacaco | cocctgtggg | ACCCCATCAL | ggcggtataa |
| 36841 | atctgagcgg | tcaccagaac | CCAGCAGALL | toggogttea | aagetatagg | racaarraca |
| 36901 36961 | cttccgcatc | trageageac | ggatacgcgc | tgematacg | gaggetteea | cttcttggeg |
| | tttgtgctgg | gaacgctcat | cetgacatte | cactacgatc | CCCattages | Ecgartiget |
| 37021 37081 | tcgaatcgca | gaatcggtgg | tattgacgtg | ctgcctaccc | GC&CCGG94 | gatgggtaat |
| 37141 | acctattttc | maatcacccg | ggctgatgtc | cggtaattca | acttetaas | ayegaaacgt |
| 37201 | gecagecaca | gracaggcag | Bagtgtgaat | gegeeectga | dattccd+++ | constant |
| 37261 | tttaacacga | Egacegeetg | attcaaattt | caagtgacca | taaacctmet | ggracacg |
| 37321 | totageante | acttetttgt | agccaccatg | ctcgccttcg | ttageact+= | tantetes. |
| 37381 | ceecagegg | cgggcttecg | catagogget | atacatgcgg | aacaaatoto | |
| 37441 | Cycygettea | regeracegg | tteetgeeeg | gacttcaagg | asacagttge | ycadatat |
| 37501 | -ygatcttc | ggcaacagca | gtagctgtag | ctgctgttcc | agetettest | gereateate |
| - 120T | rycetecttg | agctcttcct | gcgccatttc | ccgcatttcg | acca | -acgaatttt |
| | | | - | , | | |

Fig. 2(viii)

Fig. 3 chrim5ed2.seq (37544 bps)

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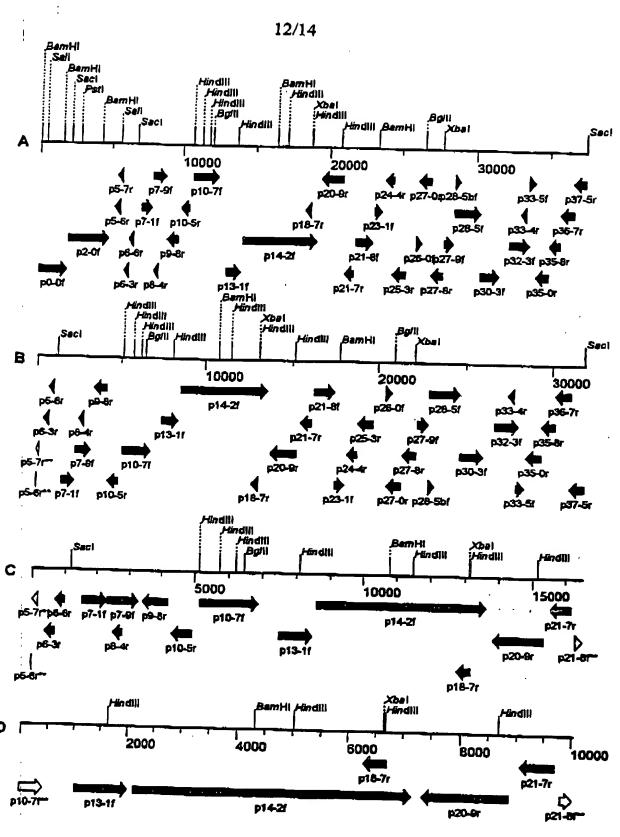
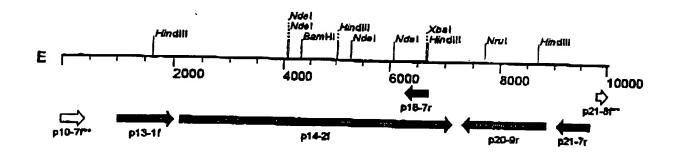
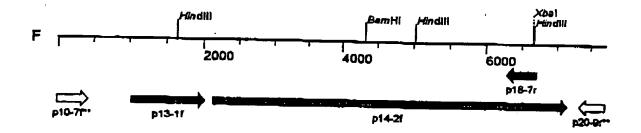
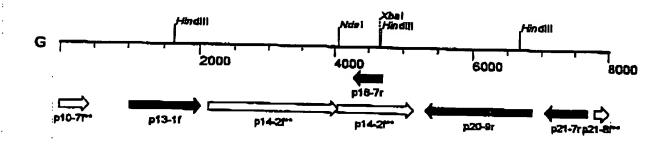


Fig. 4







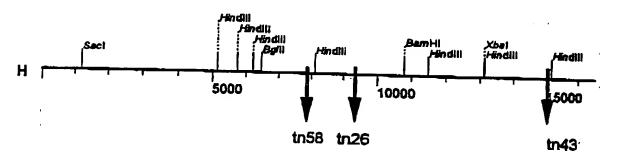


Fig. 4(cont'd)



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